



Better Water. Better World.

Case Study

G20 Summit Focuses on Economy in a VERY Green, Sustainable Facility

Sustained Green Wall Adds Ambiance, Energy-Efficiency and Utilizes Water Recycling!

With a reported 16,000+ people attending the 2012 G20 Summit in Los Cabos, Mexico, twenty leaders from the world's most powerful economies met in a newly constructed, state-of-the-art green facility - the Los Cabos International Convention Center (ICC). These leaders, which collectively represent around 80% of world's trade volume and more than 2/3 of the world's population, discussed economic policies on how to achieve international financial stability, among other global issues. However, the discussions most likely were not about how the property manages to keep such a large 2700 m², lush green facade well maintained with a hidden MyFAST® wastewater treatment plant.

As the first such summit to occur in Latin America, new infrastructure and a new convention center in Cabo San Lucas was necessary. "Built specifically for the purposes of hosting conventions and summits such as [the G20 Summit], the [Los Cabos International] Convention Center...can compete with the likes of other Mexican hotspots such as Cancun, Puerto Vallarta, and Mexico City." (Cabo G20 Summit: Proof that Los Cabos is Safer than Ever, PRWEB.COM Newswire, <http://www.digitaljournal.com/pr/754200#ixzz1yMt9FNWJ> Retrieved June 20, 2012)

The ICC was built with the G20 agenda in mind. Namely, a focus on green infrastructure, energy and water efficiency, and financing the fight against climate



Los Cabos International Convention Center and World's largest "Green Wall" installation

change. According to project's consulting engineers, ICA Construcción Urbana (<http://ica-construccionurbana.com.mx/en>), the ICC was built in a record time of six and a half months. "The project began on November 15, 2011 and was completed on May 31 2012. Usually, a project of this nature takes approximately two years to be completed."

About the Decentralized Wastewater Treatment Plant

The ICC is a "green" facility, literally! The building is completely engulfed in "Living Green Wall" (or vertical garden), which is the symbol of 'green-building design' under which the complex was built and features local flora. Equipped with a 2.65 liter per second MyFAST treatment plant (utilizing fixed integrated treatment technology) hidden beneath the parking lot and a storm water tank to capture rainwater, the used water is piped to the local wastewater treatment plant where it undergoes treatment to meet high standards for irrigating the living architecture, green areas, and toilet flushing. Irrigation is provided at different levels along the wall, using gravity to move the treated water through the growing media. The building's "Green Wall" naturally cools down the entire building, thereby reduce energy costs for air conditioning.

In order to maintain the best effluent quality, piping under the MyFAST treatment units siphon settled

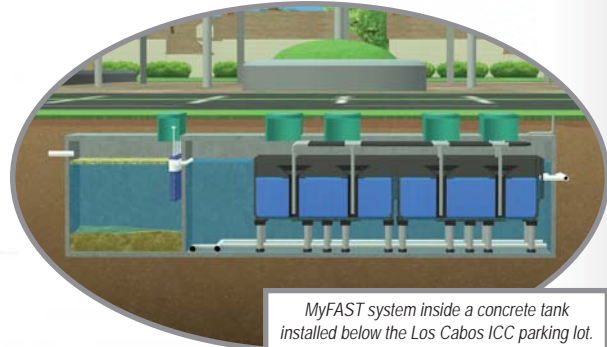




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biological sludge into a Biosolids Management System (BMS), located in a third compartment, for further treatment of sludge. This BMS zone (also called a digester) creates an aerobic environment to help further treat and reduce the sludge content. The treated effluent is then recycled back to the building.

The G20 Summit focused on many issues related to solving the world's economic crisis and political landscapes. With the example of the Los Cabos International Convention Center in Cabo San Lucas, Mexico, it is at least a step in the right direction for sustainable, green building design and promoting best management practices – especially with regard to water reuse. Whether seeking green building certifications or not, using available water sources, such as from wastewater treatment plants like the MyFAST system from Bio-Microbics, promotes the importance of green buildings to the long-term health and sustainability of our communities. ■■■



ABOUT BIO-MICROBICS, INC.

Bio-Microbics manufactures wastewater, stormwater, and water treatment systems designed for individual residential or commercial properties and small communities. With decades of experience and real-world operating history, our products are pre-engineered to allow flexible and fast installations with less excavation (low impact development) and less labor management (operators). Our Research and Development team maintains an onsite environmental laboratory and test site in an ongoing R & D program. Our FAST® and BioBarrier® wastewater solutions involve Fixed Integrated Treatment Technology (FITT®), effluent screening devices, stormwater systems, and other treatment products. Founded in the 1996, Bio-Microbics innovative, decentralized treatment systems provide solutions from pretreatment to advanced wastewater recycling techniques. Our products and systems allow for water reuse by treating the effluent to higher standards. Over the past 15 years, Bio-Microbics has grown to become a global leader with more than 42,000 installations in more than 60 countries. Our Products, Policies, and People make the difference.

ABOUT HYDROCALSAN

Founded in 1984 and providing integrated water related technologies to the development of Northwest Mexico, Hydrocalsan's extensive experience in applying advanced technologies to various water projects, sewage, agricultural, mining, aquaculture and in the construction industry in general. Hydrocalsan is an authorized dealer for NASCOR of Bio-Microbics products, ADS, NDS, JMEagle, Diamond Plastics, Vaughan, Grundfos, Sulzer, and Smith & Loveless. (www.hydrocalsan.com)

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Control Panel house and Blowers for the MyFAST® system.

View ICA Construcción Urbana's Infographic available on Flickr!